

Annex 1: Measurement diagrams 21-1-0143601T04a-A1

Number of pages:	10	Date of Report:	2021-Dec-06
Testing company:	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	Applicant:	Husqvarna AB
Product: Model:	Robotic Mower BT Application Board Type 2		
FCC ID:	ZASHQ-BLE-1F	IC:	23307-HQBLE1F
Testing has been carried out in accordance with:	Title 47 CFR, Chapter I FCC Regulations, Subchapter A Subpart C: §15.247 (DTS) , RSS-247, Issue 2 (DTS) RSS-Gen., Issue 5 Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".method and limit".		

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1 Measurement diagrams

3.01a_BLE_low_laying

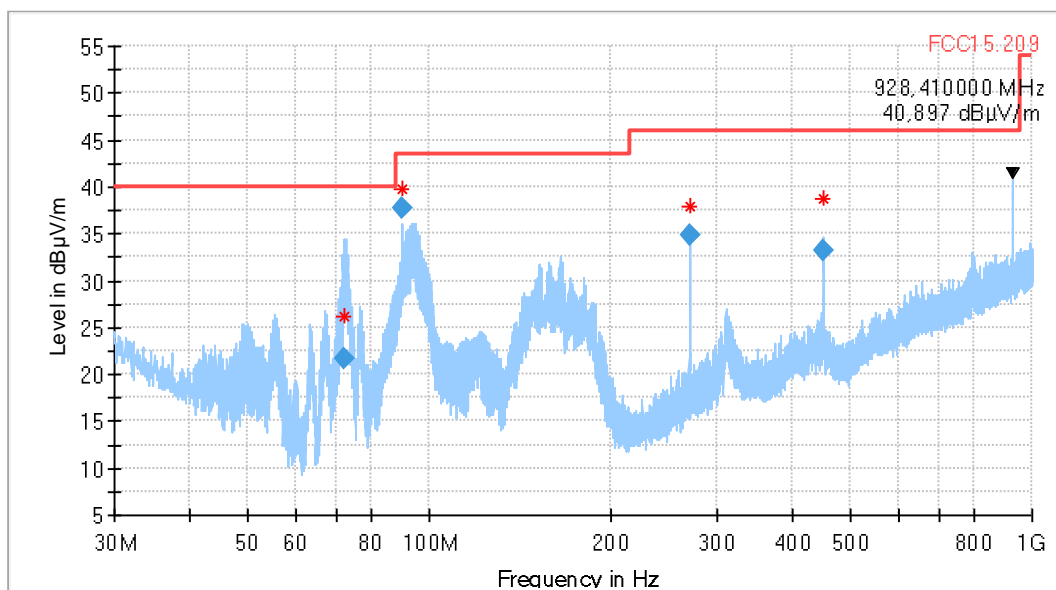
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Operator Name:	PMa
EUT:	Laying
Operating Mode:	1
Power supply:	42 V DC
Comment:	Channel no. low
Verdict:	Passed

EUT Information

PMT number: 21-1-01436S03_C01

Full Spectrum



Remark: The peak at 928 MHz is known external disturbance and does not come from EUT.

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
72.295000	21.71	40.00	18.29	120.000	159.0	V	331.0	6.6
90.005000	37.76	43.50	5.74	120.000	105.0	V	287.0	8.2
270.005000	34.91	46.00	11.09	120.000	112.0	H	92.0	14.6
450.033000	33.19	46.00	12.81	120.000	104.0	H	173.0	19.3

3.01a_BLE_low_standing

Common Information

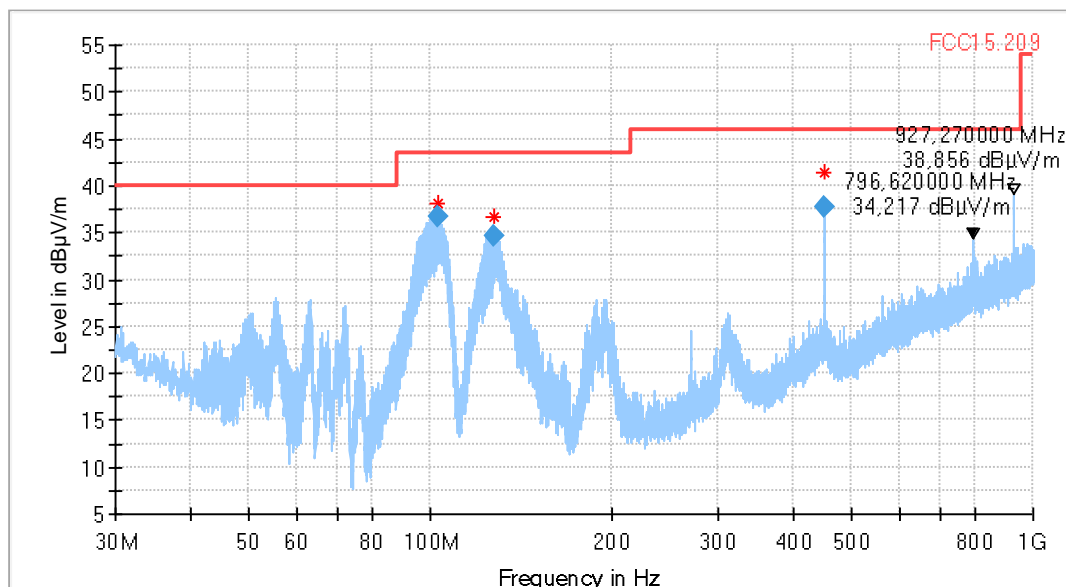
Test Description: Radiated field strength emission in 3m distance
 Test Site: CETECOM GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity : 50%rH; Temperature: 20°C
 Operator Name: PMA
 EUT: Standing
 Operating Mode: 1
 Power supply: 42 V DC
 Comment: Channel no. low
 Verdict: Passed

EUT Information

PMT number: 21-1-01436S03_C01

Full Spectrum



Remark: The peak at 796 and 927 MHz is known external disturbance and does not come from EUT.

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
102.775000	36.77	43.50	6.73	120.000	109.0	V	278.0	8.1
127.675000	34.54	43.50	8.96	120.000	109.0	V	251.0	8.6
450.035000	37.68	46.00	8.32	120.000	179.0	H	147.0	19.3

4.01a_BLE_low

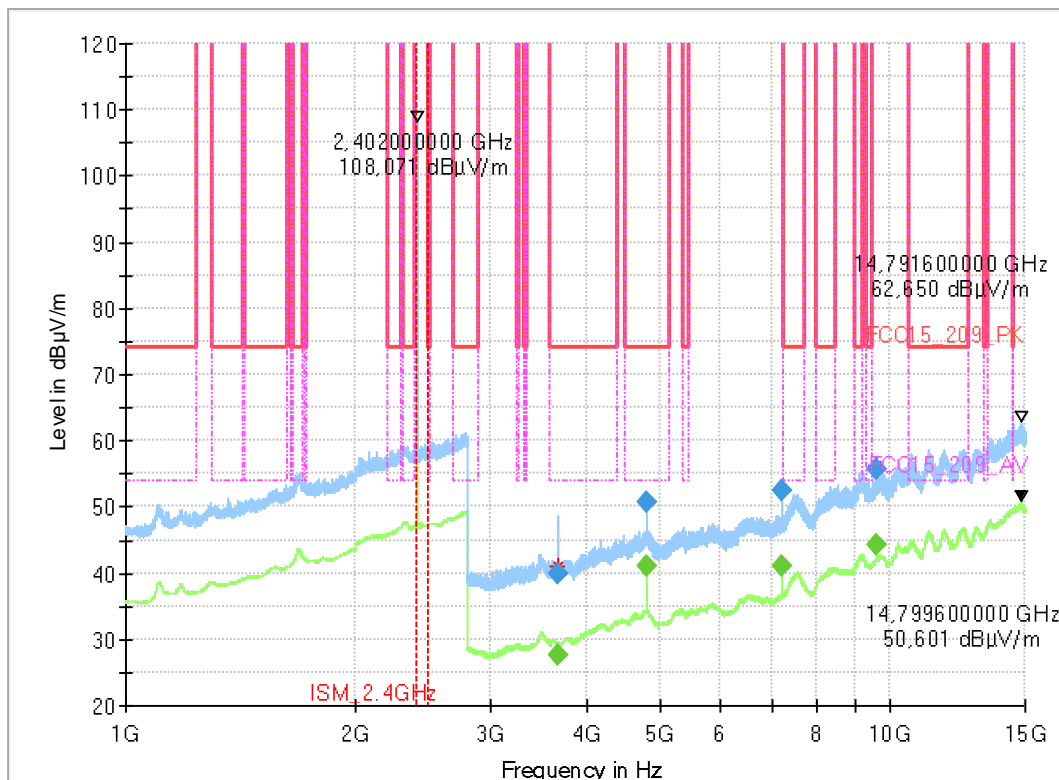
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	1
Set-up no.	1
Operator:	SOz / LKnopp
Comment:	Channel no. low
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number: 21-1-01436S03_C01

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
3678.000000	---	27.66	54.00	26.34	100.0	1000.000	155.0	H	186.0	0.0
3678.000000	39.83	---	74.00	34.17	100.0	1000.000	155.0	H	246.0	0.0
4804.400000	---	40.98	54.00	13.02	100.0	1000.000	155.0	H	266.0	0.0
4804.400000	50.83	---	74.00	23.17	100.0	1000.000	155.0	H	265.0	0.0
7205.200000	---	40.95	150.00	109.05	100.0	1000.000	155.0	H	40.0	90.0
7206.800000	52.53	---	150.00	97.47	100.0	1000.000	155.0	H	40.0	90.0
9607.200000	55.58	---	150.00	94.42	100.0	1000.000	155.0	V	7.0	90.0
9608.800000	---	44.35	150.00	105.65	100.0	1000.000	155.0	V	43.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB/m)	Comment
3678.000000	2	16:50:33 - 30.11.2021
3678.000000	2	16:43:53 - 30.11.2021
4804.400000	7	16:51:55 - 30.11.2021
4804.400000	7	16:45:12 - 30.11.2021
7205.200000	12	16:55:32 - 30.11.2021
7206.800000	13	16:46:56 - 30.11.2021
9607.200000	18	16:48:37 - 30.11.2021
9608.800000	18	16:53:48 - 30.11.2021

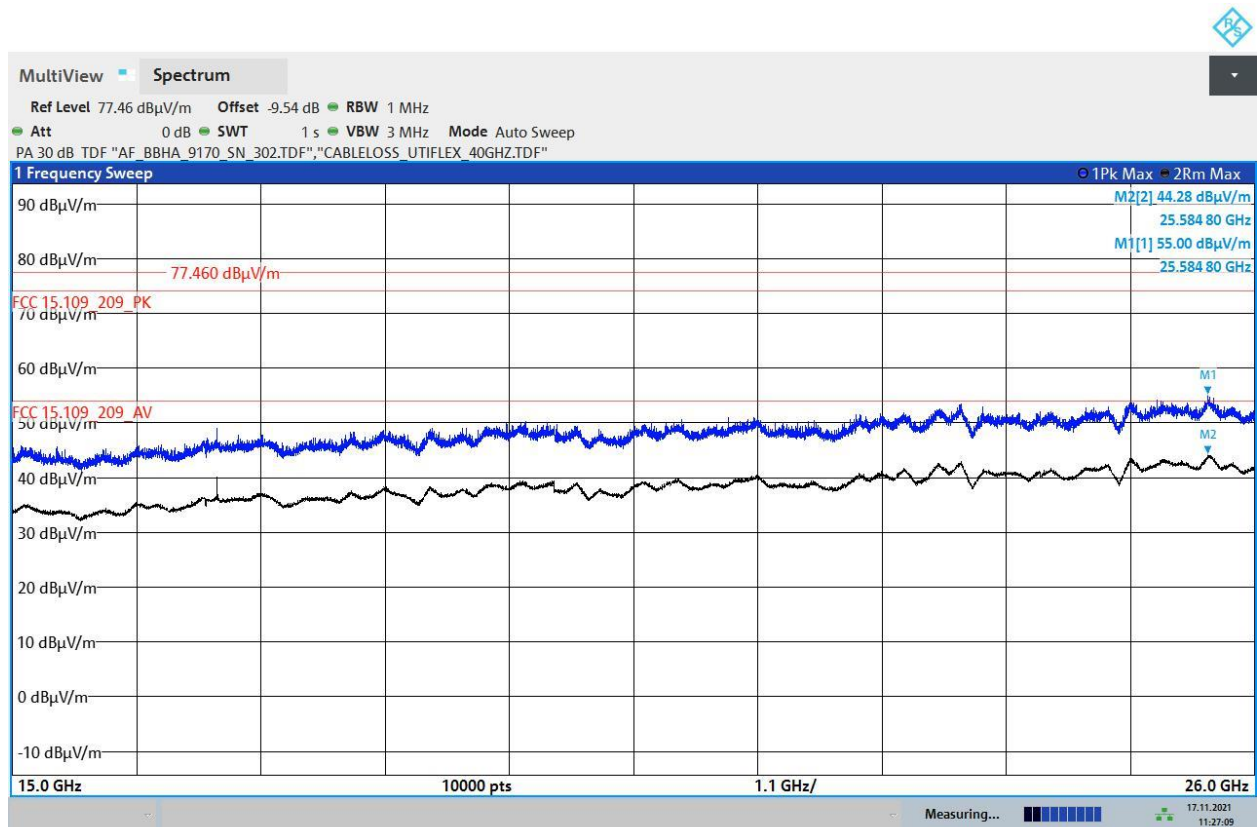
4.01b_BLE_low

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	1
Set-up no.:	1
Operator:	SOz / LKnopp
Comment:	Channel no. low
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number: 21-1-01436S03_C01



11:27:10 17.11.2021

9.01_BE_BLE_low

Common Information

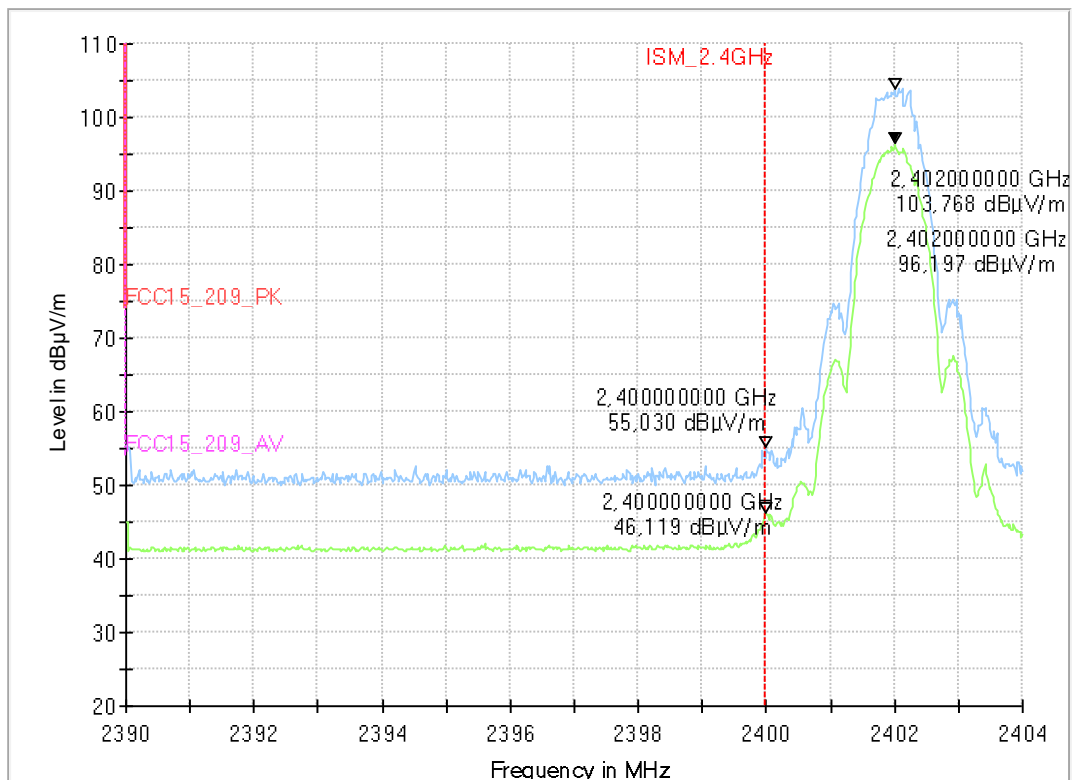
Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
 Antenna polarisation: horizontal/vertical

Operating Mode: 1
 Operator: SOz / LKnopp
 Comment: Channel no. low
 Comment2: -
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 21-1-01436S03_C01

Full Spectrum



9.02_BE_BLE_high

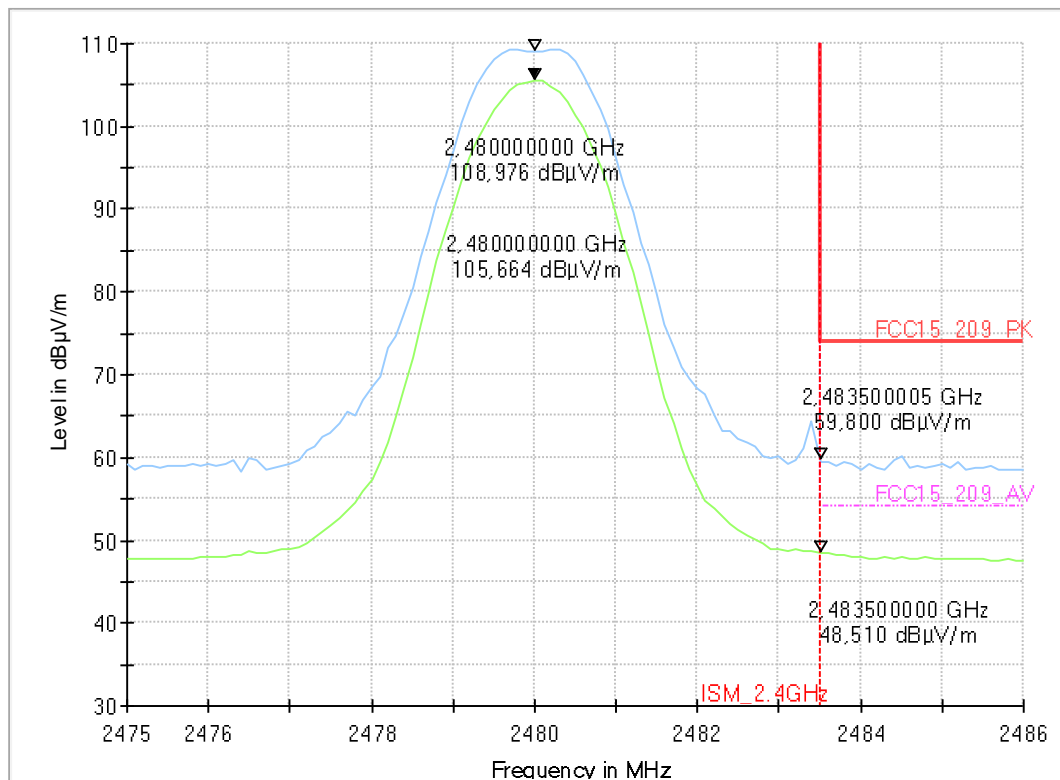
Common Information

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
 Antenna polarisation: horizontal/vertical

Operating Mode: 1
 Operator: SOz / LKnopp
 Comment: Channel no.high
 Comment2: -
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 21-1-01436S03_C01
 Full Spectrum



End Of Annex 1